



FCC Test Report

Test report
On Behalf of
Shenzhen Shire Star Electronic Technology Co., Ltd.
For
Camera
Model No.: X9, X9-A, X9-B, X9-C, X9-D

FCC ID: 2BFCX-X9

Prepared For : **Shenzhen Shire Star Electronic Technology Co., Ltd.**
2nd Floor, Building F, Guanghao Industrial Park, Yunfeng Road, Longhua District, Shenzhen, China

Prepared By : **Shenzhen HUAKE Testing Technology Co., Ltd.**
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Date of Test: **Nov. 19, 2024 ~ Nov. 28, 2024**

Date of Report: **Nov. 28, 2024**

Report Number: **HK2411196966-E**



Test Result Certification

Applicant's name: Shenzhen Shire Star Electronic Technology Co., Ltd.
Address: 2nd Floor, Building F, Guanghao Industrial Park, Yunfeng Road,
Longhua District, Shenzhen, China
Manufacturer's Name: Shenzhen Shire Star Electronic Technology Co., Ltd.
Address: 2nd Floor, Building F, Guanghao Industrial Park, Yunfeng Road,
Longhua District, Shenzhen, China

Product description

Trade Mark: N/A
Product name: Camera
Model and/or type reference...: X9, X9-A, X9-B, X9-C, X9-D

Standards: FCC Rules and Regulations Part 15 Subpart C Section 15.247
ANSI C63.10: 2013

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Date of Test:

Date (s) of performance of tests: **Nov. 19, 2024 ~ Nov. 28, 2024**

Date of Issue: **Nov. 28, 2024**

Test Result: **Pass**

Testing Engineer :

(Len Liao)

Technical Manager :

(Sliver Wan)

Authorized Signatory :

(Jason Zhou)



Table of Contents

1. Test Result Summary	5
1.1. Test Procedures and Results.....	5
1.2. Information of the Test Laboratory	5
1.3. Measurement Uncertainty	6
2. EUT Description	7
2.1. General Description of EUT	7
2.2. Carrier Frequency of Channels.....	8
2.3. Operation of EUT During Testing	8
2.4. Description of Test Setup.....	9
2.5. Description of Support Units	10
3. General Information.....	11
3.1. Test Environment and Mode	11
4. Test Results and Measurement Data	13
4.1. Conducted Emission.....	13
4.2. Test Result	15
4.3. Maximum Conducted Output Power	17
4.4. Emission Bandwidth	19
4.5. Power Spectral Density	27
4.6. Conducted Band Edge and Spurious Emission Measurement	36
4.7. Radiated Spurious Emission Measurement	46
4.8. Antenna Requirement.....	72
5. Photograph of Test.....	73
6. Photos of the EUT.....	75



**** Modified History ****

Revision	Description	Issued Data	Remark
Revision 1.0	Initial Test Report Release	Nov. 28, 2024	Jason Zhou



1. Test Result Summary

1.1. Test Procedures and Results

Requirement	CFR 47 Section	Result
Antenna requirement	§15.203/§15.247(b)(4)	PASS
AC Power Line Conducted Emission	§15.207	PASS
Conducted Peak Output Power	§15.247(b)(3)	PASS
6dB Emission Bandwidth	§15.247(a)(2)	PASS
Power Spectral Density	§15.247(e)	PASS
Band Edge	§15.247(d)	PASS
Spurious Emission	§15.205/§15.209	PASS

Note:

1. PASS: Test item meets the requirement.
2. Fail: Test item does not meet the requirement.
3. N/A: Test case does not apply to the test object.
4. The test result judgment is decided by the limit of test standard.

1.2. Information of the Test Laboratory

Shenzhen HUAKE Testing Technology Co., Ltd.

Add.: 1-2/F., Building B2, Junfeng Zhongcheng Zhizao Innovation Park, Heping, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China

Testing Laboratory Authorization :

A2LA Accreditation Code is 4781.01.

FCC Designation Number is CN1229.

Canada IC CAB identifier is CN0045.

CNAS Registration Number is L9589.



1.3. Measurement Uncertainty

The reported uncertainty of measurement $y \pm U$, where expanded uncertainty U is based on a standard uncertainty multiplied by a coverage factor of $k=2$, providing a level of confidence of approximately 95 %.

No.	Item	MU
1	Conducted Emission	$\pm 2.71\text{dB}$
2	RF power, conducted	$\pm 0.37\text{dB}$
3	Spurious emissions, conducted	$\pm 0.11\text{dB}$
4	All emissions, radiated(<1G)	$\pm 3.90\text{dB}$
5	All emissions, radiated(>1G)	$\pm 4.28\text{dB}$
6	Temperature	$\pm 0.1^{\circ}\text{C}$
7	Humidity	$\pm 1.0\%$



2. EUT Description

2.1. General Description of EUT

Equipment:	Camera
Model Name:	X9
Series Model:	X9-A, X9-B, X9-C, X9-D
Model Difference:	All model's the function, software and electric circuit are the same, only with model named different. Test sample model: X9.
FCC ID:	2BFCX-X9
Antenna Type:	PCB Antenna
Antenna Gain:	1.24dBi
Operation frequency:	802.11b/g/n (HT20):2412~2462 MHz 802.11 (HT40):2422~2452 MHz
Number of Channels:	802.11b/g/n(HT20): 11CH 802.11 (HT40): 7CH
Modulation Type:	DSSS, OFDM
Power Source:	DC 5V from Micro USB
Power Rating:	DC 5V from Micro USB
Hardware Version:	V1.1
Software Version:	V1.1

Note:

1. For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.
2. Antenna gain Refer to the antenna specifications.
3. The cable loss data is obtained from the supplier.
4. The test results in the report only apply to the tested sample.



2.2. Carrier Frequency of Channels

Channel List For 802.11b/802.11g/802.11n (HT20)							
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
01	2412	04	2427	07	2442	10	2457
02	2417	05	2432	08	2447	11	2462
03	2422	06	2437	09	2452	--	--

Channel List For 802.11n (HT40)							
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
--	--	04	2427	07	2442	--	--
--	--	05	2432	08	2447	--	--
03	2422	06	2437	09	2452	--	--

Note:

In section 15.31(m), regards to the operating frequency range over 10 MHz, the Lowest frequency, the middle frequency, and the highest frequency of channel were selected to perform the test, and the selected channel see below:

2.3. Operation of EUT During Testing

Operating Mode

The mode is used: **Transmitting mode for 802.11b/802.11g/802.11n (HT20)**

Low Channel: 2412MHz

Middle Channel: 2437MHz

High Channel: 2462MHz

The mode is used: **Transmitting mode for 802.11n (HT40)**

Low Channel: 2422MHz

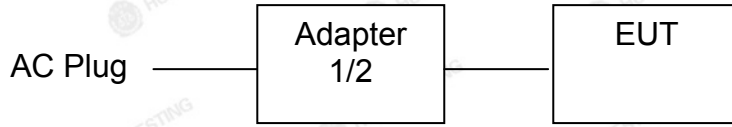
Middle Channel: 2437MHz

High Channel: 2452MHz



2.4. Description of Test Setup

Operation of EUT during radiation testing and conducted testing:



The sample was placed (0.8m below 1GHz, 1.5m above 1GHz) above the ground plane of 3m chamber. Measurements in both horizontal and vertical polarities were performed. During the test, each emission was maximized by: having the EUT continuously working, investigated all operating modes, rotated about all 3 axis (X, Y & Z) and considered typical configuration to obtain worst position, manipulating interconnecting cables, rotating the turntable, varying antenna height from 1m to 4m in both horizontal and vertical polarizations. The emissions worst-case are shown in Test Results of the following pages. The worst case is X position.



2.5. Description of Support Units

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

Item	Equipment	Trade Mark	Model/Type No.	Specification	Remark
1	Camera	N/A	X9	N/A	EUT
2	Adapter 1	N/A	HW-100225C00	Input: AC100-240V, 50/60Hz, 0.75A Output: 5V 2A	Peripheral
3	Adapter 2	N/A	MDY-10-EH	Input: 100-240VAC, 50/60Hz, 0.7A Output: 5V 3A/9V 3A/12V 2.25A/20V 1.35A	Peripheral

Note:

1. All the equipment/cables were placed in the worst-case configuration to maximize the emission during the test.
2. Grounding was established in accordance with the manufacturer's requirements and conditions for the intended use.
3. For conducted measurements (Output Power, 6dB Emission Bandwidth, Power Spectral Density, Spurious Emissions), the antenna of EUT is connected to the test equipment via temporary antenna connector, the antenna connector is soldered on the antenna port of EUT, and the temporary antenna connector is listed in the Test Instruments.



3. General Information

3.1. Test Environment and Mode

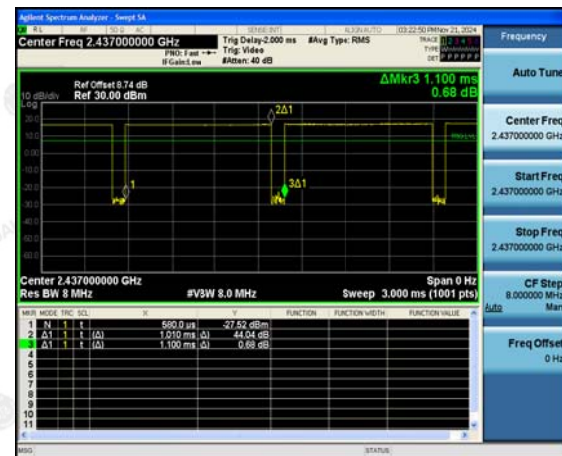
Operating Environment:		
Temperature:	25.0 °C	
Humidity:	56 % RH	
Atmospheric Pressure:	1010 mbar	
Test Mode:		
Engineering mode:	Keep the EUT in continuous transmitting by select channel and modulations	
We have verified the construction and function in typical operation. All the test modes were carried out with the EUT in transmitting operation, which was shown in this test report and defined as follows:		
Per-scan all kind of data rate in lowest channel, and found the follow list which it was worst case.		
Mode	Data rate	
802.11b	1Mbps	
802.11g	6Mbps	
802.11n(HT20)	6.5Mbps	
802.11n(HT40)	13.5Mbps	
Final Test Mode:		
Operation mode:	Keep the EUT in continuous transmitting with modulation	
1. For WIFI function, the engineering test program was provided and enabled to make EUT continuous transmit/receive.		
2. According to ANSI C63.10 standards, the test results are both the “worst case” and “worst setup” 1Mbps for 802.11b, 6Mbps for 802.11g, 6.5Mbps for 802.11n(HT20), 13.5Mbps for 802.11n(HT40).		
3. Mode Test Duty Cycle		
Mode	Duty Cycle	Duty Cycle Factor (dB)
802.11b	0.91	-0.41
802.11g	0.92	-0.37
802.11n(HT20)	0.92	-0.37
802.11n(HT40)	0.92	-0.37
Test plots as follows:		



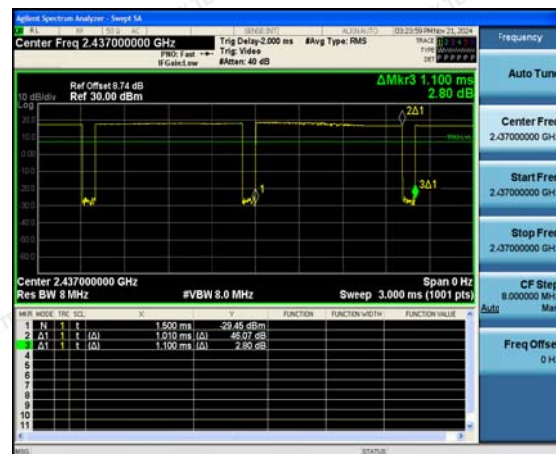
802.11b



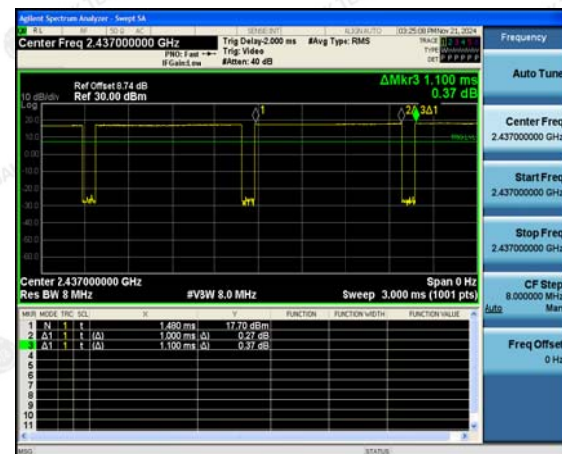
802.11g



802.11n(H20)



802.11n(HT40)





4. Test Results and Measurement Data

4.1. Conducted Emission

Test Specification

Test Requirement:	FCC Part15 C Section 15.207														
Test Method:	ANSI C63.10:2013														
Frequency Range:	150 kHz to 30 MHz														
Receiver setup:	RBW=9 kHz, VBW=30 kHz, Sweep time=auto														
Limits:	<table><tr><th rowspan="2">Frequency range (MHz)</th><th colspan="2">Limit (dBuV)</th></tr><tr><th>Quasi-peak</th><th>Average</th></tr><tr><td>0.15-0.5</td><td>66 to 56*</td><td>56 to 46*</td></tr><tr><td>0.5-5</td><td>56</td><td>46</td></tr><tr><td>5-30</td><td>60</td><td>50</td></tr></table>	Frequency range (MHz)	Limit (dBuV)		Quasi-peak	Average	0.15-0.5	66 to 56*	56 to 46*	0.5-5	56	46	5-30	60	50
Frequency range (MHz)	Limit (dBuV)														
	Quasi-peak	Average													
0.15-0.5	66 to 56*	56 to 46*													
0.5-5	56	46													
5-30	60	50													
Test Setup:	Reference Plane 40cm Remark E.U.T: Equipment Under Test LISN: Line Impedance Stabilization Network Test table height=0.8m														
Test Mode:	transmitting with modulation														
Test Procedure:	1. The E.U.T is connected to the main power through a line impedance stabilization network (L.I.S.N.). This provides a 50ohm/50uH coupling impedance for the measuring equipment. 2. The peripheral devices are also connected to the main power through a LISN that provides a 50ohm/50uH coupling impedance with 50ohm termination. (Please refer to the block diagram of the test setup and photographs). 3. Both sides of A.C. line are checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10: 2013 on conducted measurement.														
Test Result:	PASS														



Test Instruments

Conducted Emission Shielding Room Test Site (843)				
Equipment	Manufacturer	Model	Serial Number	Calibration Due
Receiver	R&S	ESR	HKE-005	Feb. 19, 2025
LISN	R&S	ENV216	HKE-002	Feb. 19, 2025
LISN	R&S	ENV216	HKE-059	Feb. 19, 2025
Coax cable (9KHz-30MHz)	Times	381806-002	N/A	Feb. 19, 2025
EMI Test Software	Tonscend	JS32-CE 2.5.0.6	HKE-081	N/A

Note: The calibration interval of the above test instruments is 12 months and the calibrations are traceable to international system unit (SI).



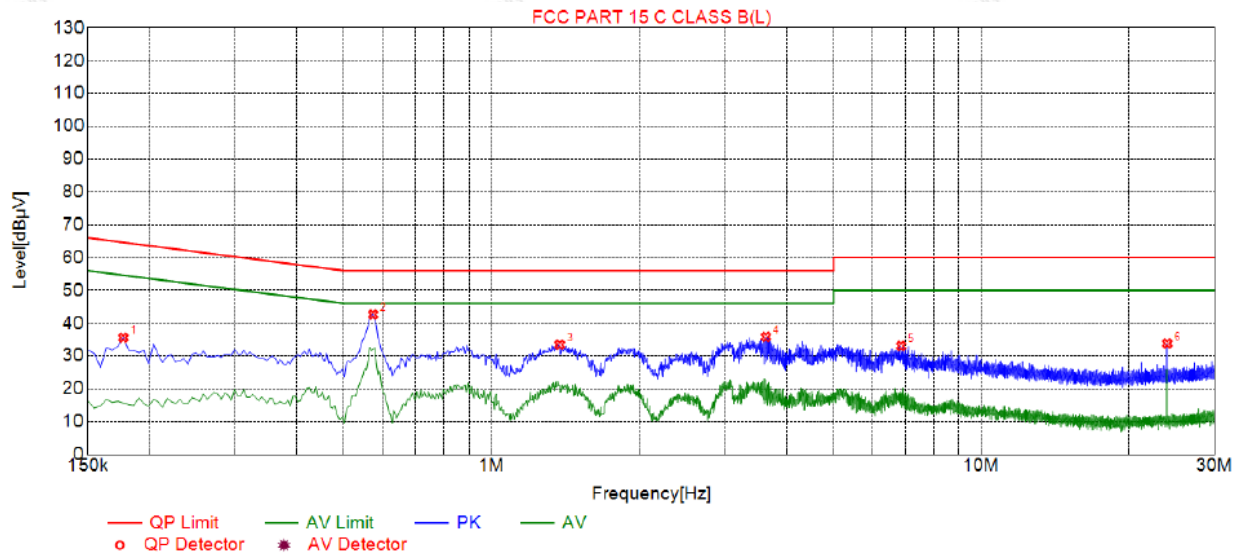
4.2. Test Result

Remark: All the test modes completed for test. only the worst result

Of was reported as below:

Conducted Emission on Line Terminal of the power line (150 kHz to 30MHz)

Test Specification: Line



Suspected List

NO.	Freq. [MHz]	Level [dBμV]	Factor [dB]	Limit [dBμV]	Margin [dB]	Reading [dBμV]	Detector	Type
1	0.1770	35.58	19.85	64.63	29.05	15.73	PK	L
2	0.5730	42.63	19.86	56.00	13.37	22.77	PK	L
3	1.3785	33.43	19.92	56.00	22.57	13.51	PK	L
4	3.6375	35.81	20.09	56.00	20.19	15.72	PK	L
5	6.8640	33.05	20.07	60.00	26.95	12.98	PK	L
6	24.0000	33.80	20.10	60.00	26.20	13.70	PK	L

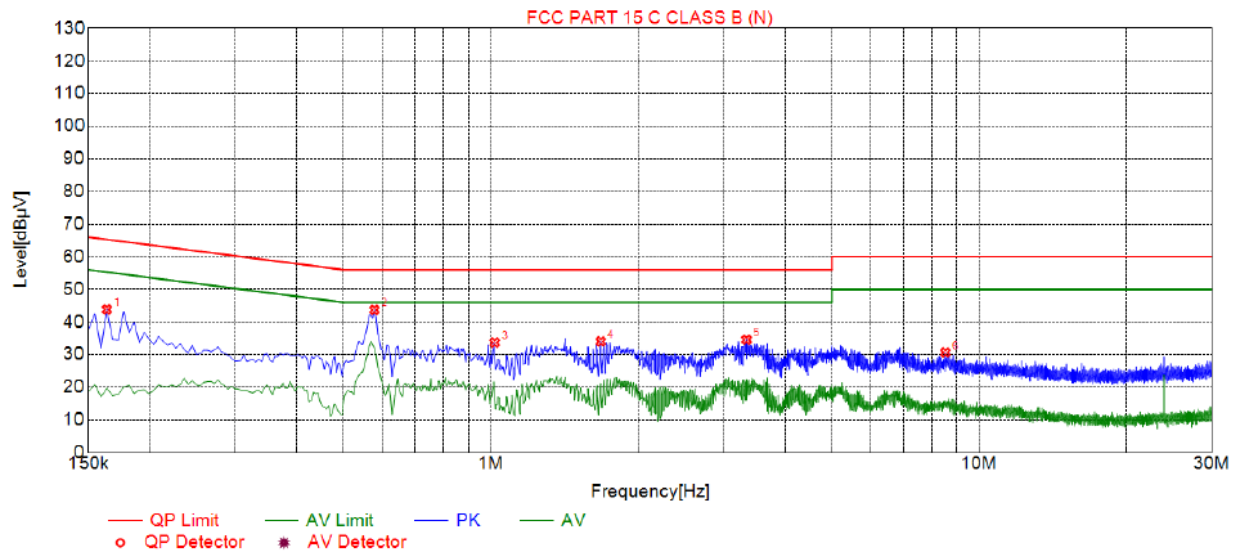
Remark: Margin = Limit - Level

Correction factor = Cable lose + LISN insertion loss

Level=Test receiver reading + correction factor



Test Specification: Neutral



Suspected List

NO.	Freq. [MHz]	Level [dBμV]	Factor [dB]	Limit [dBμV]	Margin [dB]	Reading [dBμV]	Detector	Type
1	0.1635	43.83	19.68	65.28	21.45	24.15	PK	N
2	0.5775	43.71	19.74	56.00	12.29	23.97	PK	N
3	1.0185	33.68	19.75	56.00	22.32	13.93	PK	N
4	1.6800	34.01	19.82	56.00	21.99	14.19	PK	N
5	3.3405	34.56	19.95	56.00	21.44	14.61	PK	N
6	8.5335	30.64	19.92	60.00	29.36	10.72	PK	N

Remark: Margin = Limit - Level

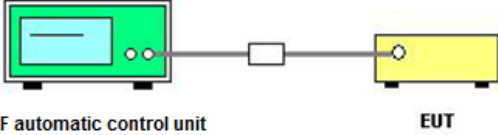
Correction factor = Cable lose + LISN insertion loss

Level=Test receiver reading + correction factor



4.3. Maximum Conducted Output Power

Test Specification

Test Requirement:	FCC Part15 C Section 15.247 (b)(3)
Test Method:	KDB 558074 D01 15.247 Meas Guidance v05r02
Limit:	30dBm
Test Setup:	 RF automatic control unit EUT
Test Mode:	Transmitting mode with modulation
Test Procedure:	1. The testing follows the Measurement Procedure of FCC KDB 558074 D01 15.247 Meas Guidance v05r02. 2. The RF output of EUT was connected to the RF automatic control unit by RF cable and attenuator. The path loss was compensated to the results for each measurement. 3. Set to the maximum power setting and enable the EUT transmit continuously. 4. Measure the Peak output power and record the results in the test report.
Test Result:	PASS

Test Instruments

RF Test Room				
Equipment	Manufacturer	Model	Serial Number	Calibration Due
Spectrum analyzer	Agilent	N9020A	HKE-025	Feb. 19, 2025
Power meter	Agilent	E4419B	HKE-085	Feb. 19, 2025
Power Sensor	Agilent	E9300A	HKE-086	Feb. 19, 2025
RF cable	Times	1-40G	HKE-034	Feb. 19, 2025
RF automatic control unit	Tonscend	JS0806-2	HKE-060	Feb. 19, 2025
RF Test Software	Tonscend	JS1120-3 Version 3.3.23	HKE-083	N/A

Note: The calibration interval of the above test instruments is 12 months and the calibrations are traceable to international system unit (SI).

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**Test Data**

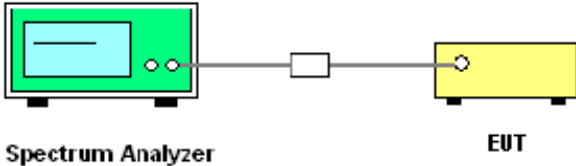
Mode	Test Channel	Frequency	Maximum Peak Conducted Output Power	LIMIT
		(MHz)	(dBm)	dBm
802.11b	CH01	2412	13.14	30
802.11b	CH06	2437	13.01	30
802.11b	CH11	2462	12.80	30
802.11g	CH01	2412	13.18	30
802.11g	CH06	2437	13.11	30
802.11g	CH11	2462	13.06	30
802.11n(HT20)	CH01	2412	13.04	30
802.11n(HT20)	CH06	2437	13.02	30
802.11n(HT20)	CH11	2462	12.97	30
802.11n(HT40)	CH03	2422	12.72	30
802.11n(HT40)	CH06	2437	12.64	30
802.11n(HT40)	CH09	2452	12.48	30

Note: 1.The test results including the cable lose.



4.4. Emission Bandwidth

Test Specification

Test Requirement:	FCC Part15 C Section 15.247 (a)(2)
Test Method:	KDB 558074 D01 15.247 Meas Guidance v05r02
Limit:	>500kHz
Test Setup:	 Spectrum Analyzer EUT
Test Mode:	Transmitting mode with modulation
Test Procedure:	1. The testing follows FCC KDB Publication 558074 D01 15.247 Meas Guidance v05r02. 2. Set to the maximum power setting and enable the EUT transmit continuously. 3. Make the measurement with the spectrum analyzer's resolution bandwidth (RBW) = 100 kHz. Set the Video bandwidth (VBW) = 300 kHz. In order to make an accurate measurement. The 6dB bandwidth must be greater than 500 kHz. 4. Measure and record the results in the test report.
Test Result:	PASS

Test Instruments

RF Test Room				
Equipment	Manufacturer	Model	Serial Number	Calibration Due
Spectrum analyzer	Agilent	N9020A	HKE-025	Feb. 19, 2025
RF cable	Times	1-40G	HKE-034	Feb. 19, 2025
RF automatic control unit	Tonscend	JS0806-2	HKE-060	Feb. 19, 2025
RF Test Software	Tonscend	JS1120-3 Version 3.3.23	HKE-083	N/A

Note: The calibration interval of the above test instruments is 12 months and the calibrations are traceable to international system unit (SI).

**Test data**

Test channel	6dB Emission Bandwidth (MHz)			
	802.11b	802.11g	802.11n(HT20)	802.11n(HT40)
Lowest	8.600	16.400	17.560	36.080
Middle	8.560	16.360	17.600	36.320
Highest	9.040	16.400	17.600	36.320
Limit:	>500kHz			
Test Result:	PASS			

Test plots as follows:



802.11b Modulation

Lowest channel



Middle channel



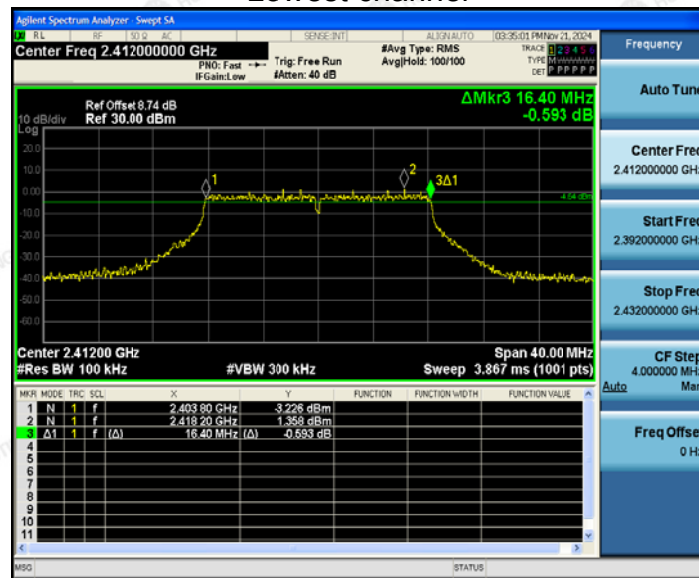


Highest channel



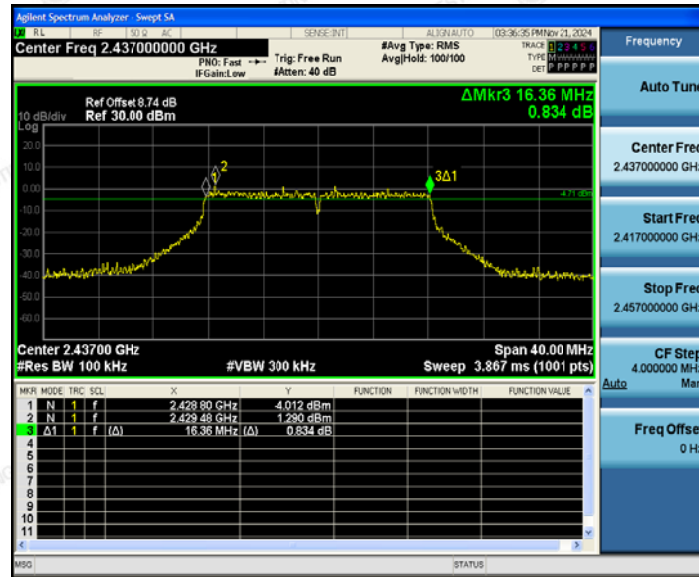
802.11g Modulation

Lowest channel





Middle channel



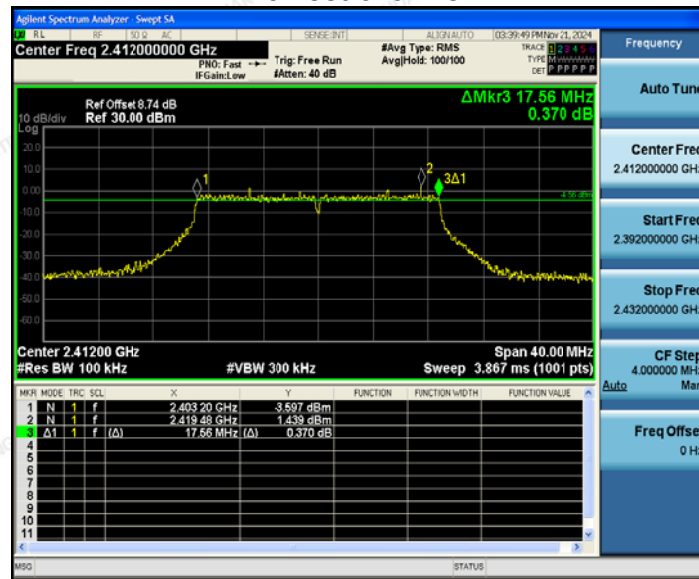
Highest channel



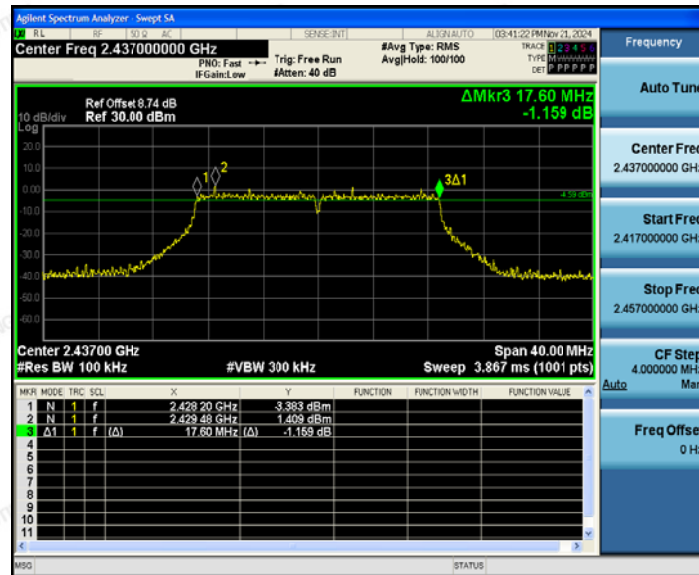


802.11n (HT20) Modulation

Lowest channel

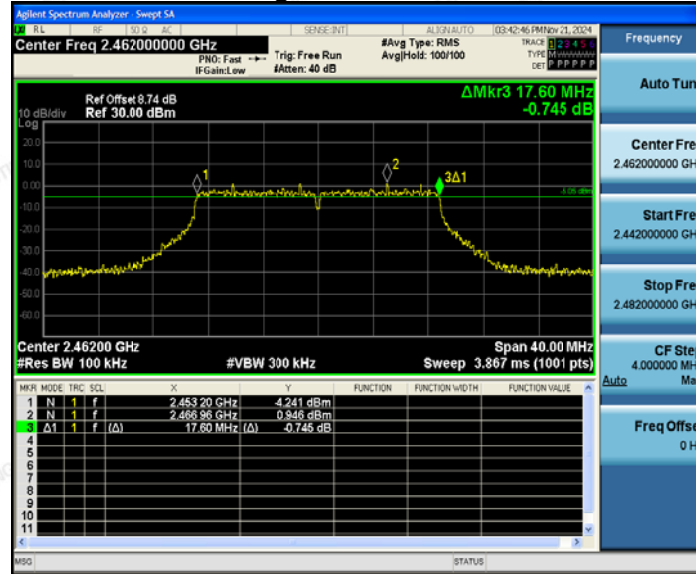


Middle channel



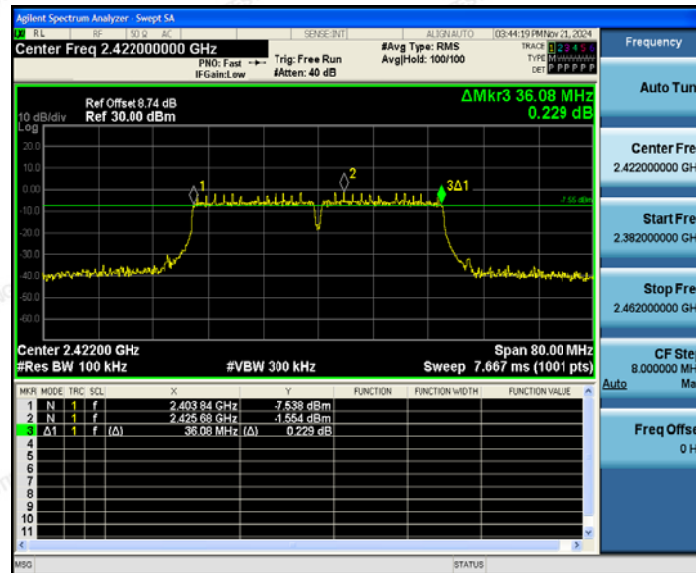


Highest channel



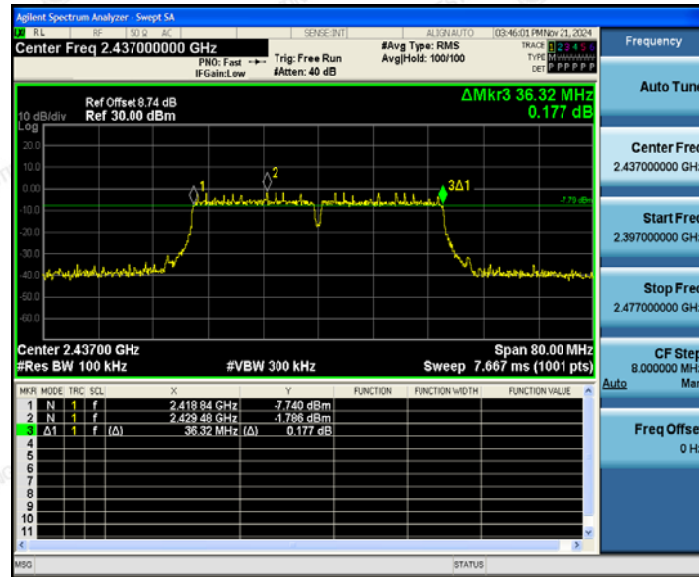
802.11n (HT20) Modulation

Lowest channel

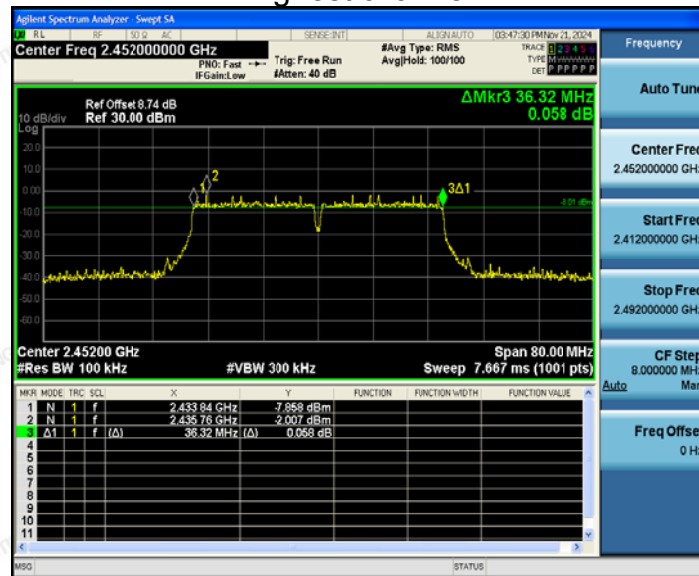




Middle channel



Highest channel





4.5. Power Spectral Density

Test Specification

Test Requirement:	FCC Part15 C Section 15.247 (e)
Test Method:	KDB 558074 D01 15.247 Meas Guidance v05r02
Limit:	The average power spectral density shall not be greater than 8dBm in any 3kHz band at any time interval of continuous transmission.
Test Setup:	 The diagram illustrates the test setup. On the left is a green box labeled 'Spectrum Analyzer'. A line connects it to a small white box, which is then connected to a yellow box labeled 'EUT'.
Test Mode:	Transmitting mode with modulation
Test Procedure:	1. The testing follows Measurement procedure 10.2 method PKPSD of FCC KDB Publication 558074 D01 15.247 Meas Guidance v05r02. 2. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement. 3. Set to the maximum power setting and enable the EUT transmit continuously. 4. Make the measurement with the spectrum analyzer's resolution bandwidth (RBW): $3\text{ kHz} \leq \text{RBW} \leq 100\text{ kHz}$. Video bandwidth $\text{VBW} \geq 3 \times \text{RBW}$. Set the span to at least 1.5 times the OBW. 5. Detector = Peak, Sweep time = auto couple. 6. Employ trace averaging (Peak) mode over a minimum of 100 traces. Use the peak marker function to determine the maximum power level. 7. Measure and record the results in the test report.
Test Result:	PASS



Test Instruments

RF Test Room				
Equipment	Manufacturer	Model	Serial Number	Calibration Due
Spectrum analyzer	Agilent	N9020A	HKE-025	Feb. 19, 2025
RF cable	Times	1-40G	HKE-034	Feb. 19, 2025
RF automatic control unit	Tonscend	JS0806-2	HKE-060	Feb. 19, 2025
RF Test Software	Tonscend	JS1120-3 Version 3.3.23	HKE-083	N/A

Note: The calibration interval of the above test instruments is 12 months and the calibrations are traceable to international system unit (SI).

**Test data**

EUT Set Mode	Channel	Test Result (dBm/30kHz)	Result (dBm/3kHz)
802.11b	Lowest	0.41	-9.59
	Middle	0.11	-9.89
	Highest	1	-9
802.11g	Lowest	-3.14	-13.14
	Middle	-3.06	-13.06
	Highest	-2.22	-12.22
802.11n(H20)	Lowest	-2.92	-12.92
	Middle	-2.47	-12.47
	Highest	-3.31	-13.31
802.11n(H40)	Lowest	-4.75	-14.75
	Middle	-4.85	-14.85
	Highest	-5.37	-15.37
PSD test result (dBm/3kHz)= PSD test result (dBm/30kHz)-10			
Limit: 8dBm/3kHz			
Test Result:	PASS		

Test plots as follows:



802.11b Modulation

Lowest channel



Middle channel



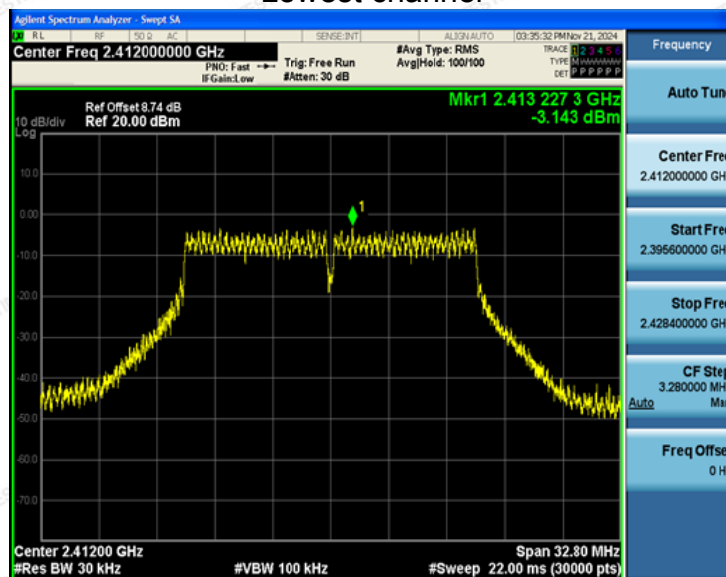


Highest channel



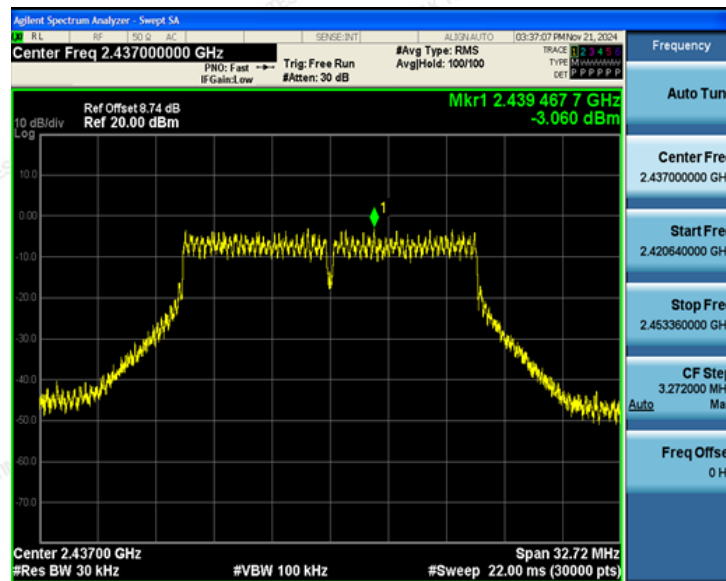
802.11g Modulation

Lowest channel

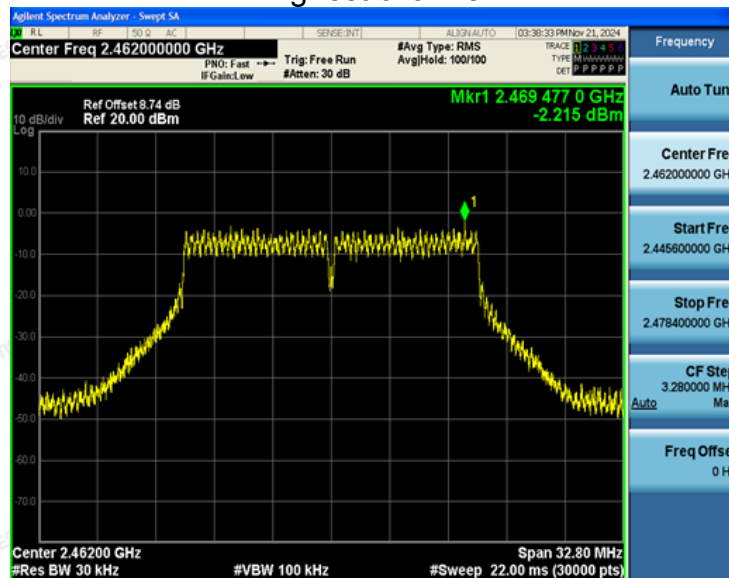




Middle channel



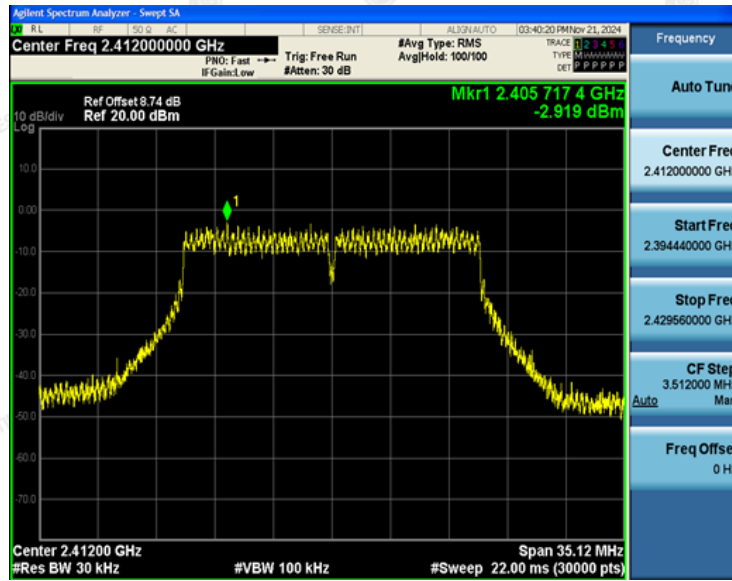
Highest channel



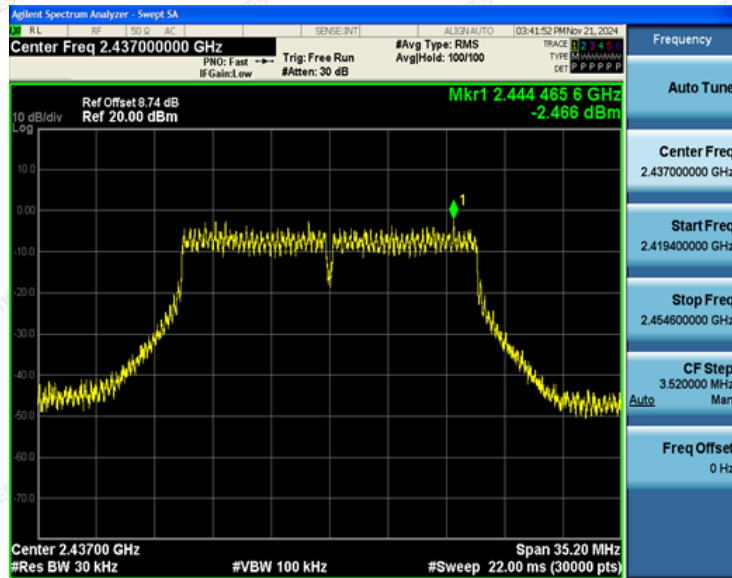


802.11n (HT20) Modulation

Lowest channel

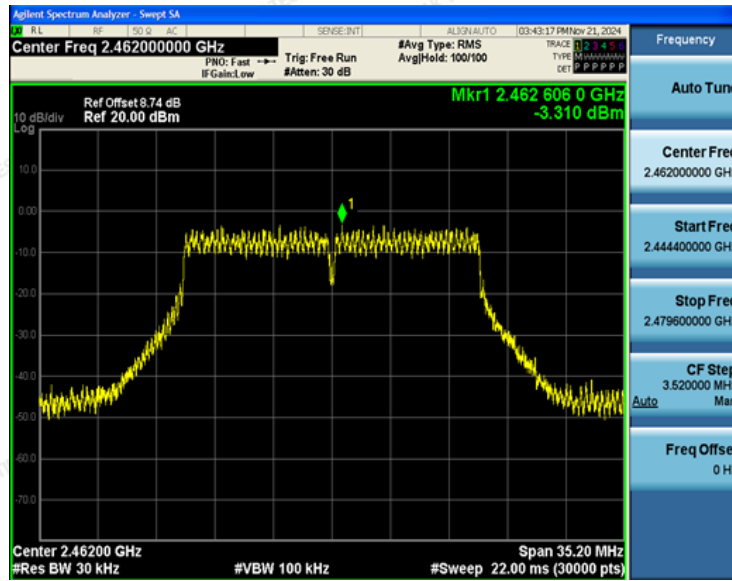


Middle channel



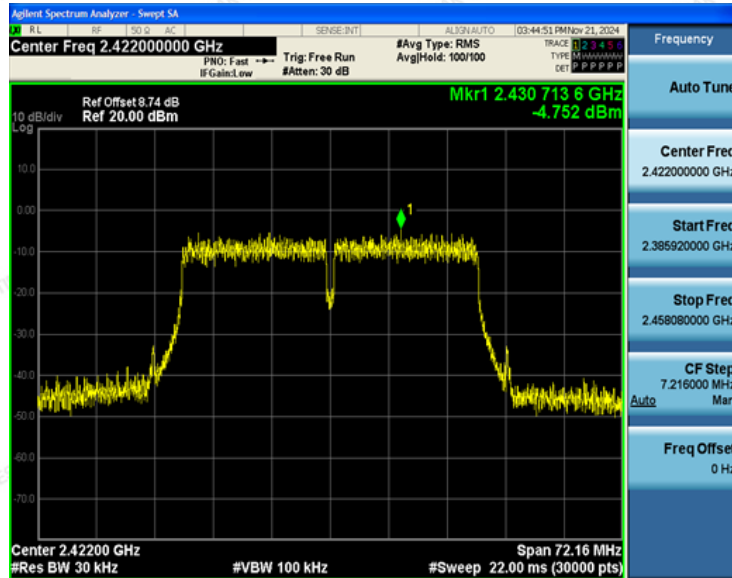


Highest channel



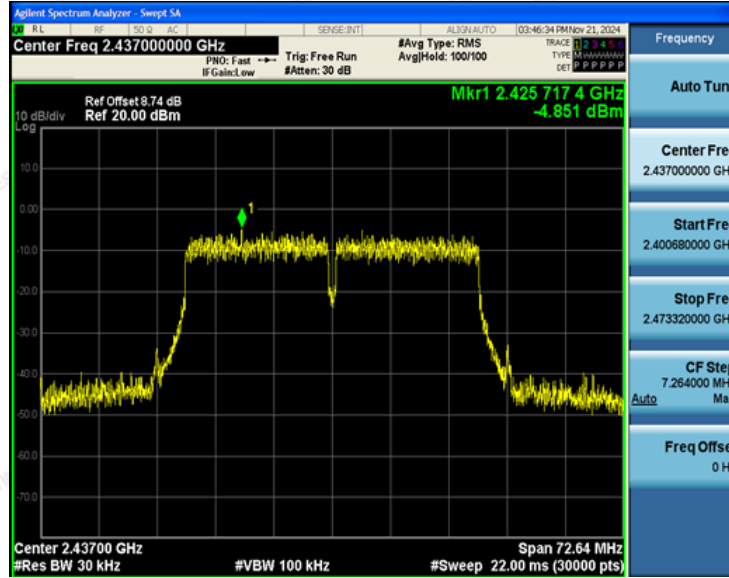
802.11n (HT40) Modulation

Lowest channel

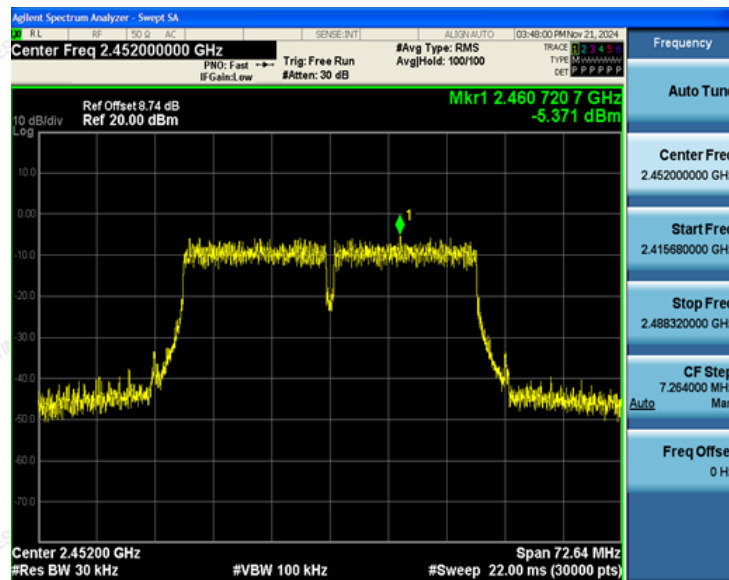




Middle channel



Highest channel





4.6. Conducted Band Edge and Spurious Emission Measurement

Test Specification

Test Requirement:	FCC Part15 C Section 15.247 (d)
Test Method:	KDB 558074 D01 15.247 Meas Guidance v05r02
Limit:	In any 100 kHz bandwidth outside of the authorized frequency band, the emissions which fall in the non-restricted bands shall be attenuated at least 20 dB / 30dB relative to the maximum PSD level in 100 kHz by RF conducted measurement and radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), must also comply with the radiated emission limits specified in Section 15.209(a).
Test Setup:	 Spectrum Analyzer EUT
Test Mode:	Transmitting mode with modulation
Test Procedure:	1. The testing follows FCC KDB Publication 558074 D01 15.247 Meas Guidance v05r02. 2. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement. 3. Set to the maximum power setting and enable the EUT transmit continuously. 4. Set RBW = 100 kHz, VBW=300 kHz, Peak Detector. Unwanted Emissions measured in any 100 kHz bandwidth outside of the authorized frequency band shall be attenuated by at least 20 dB relative to the maximum in-band peak PSD level in 100 kHz when maximum peak conducted output power procedure is used. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, the attenuation required under this paragraph shall be 30 dB instead of 20 dB per 15.247(d). 5. Measure and record the results in the test report. 6. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
Test Result:	PASS



Test Instruments

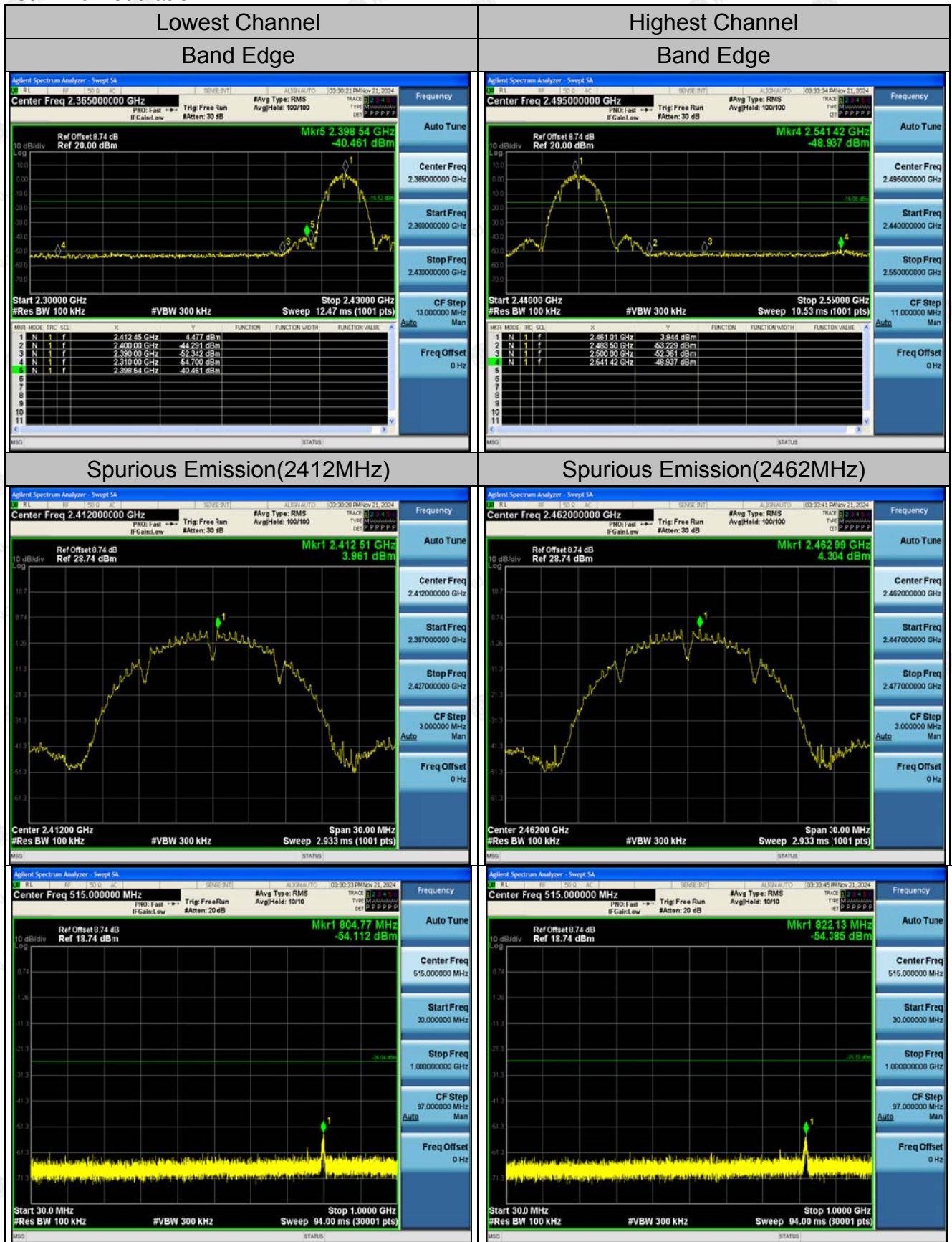
RF Test Room				
Equipment	Manufacturer	Model	Serial Number	Calibration Due
Spectrum analyzer	Agilent	N9020A	HKE-025	Feb. 19, 2025
High pass filter unit	Tonscend	JS0806-F	HKE-055	Feb. 19, 2025
RF Cable (9KHz-26.5GHz)	Tonscend	170660	N/A	Feb. 19, 2025
RF automatic control unit	Tonscend	JS0806-2	HKE-060	Feb. 19, 2025
RF test software	Tonscend	JS1120-B Version 2.6	HKE-083	N/A

Note: The calibration interval of the above test instruments is 12 months and the calibrations are traceable to international system unit (SI).



Test Data

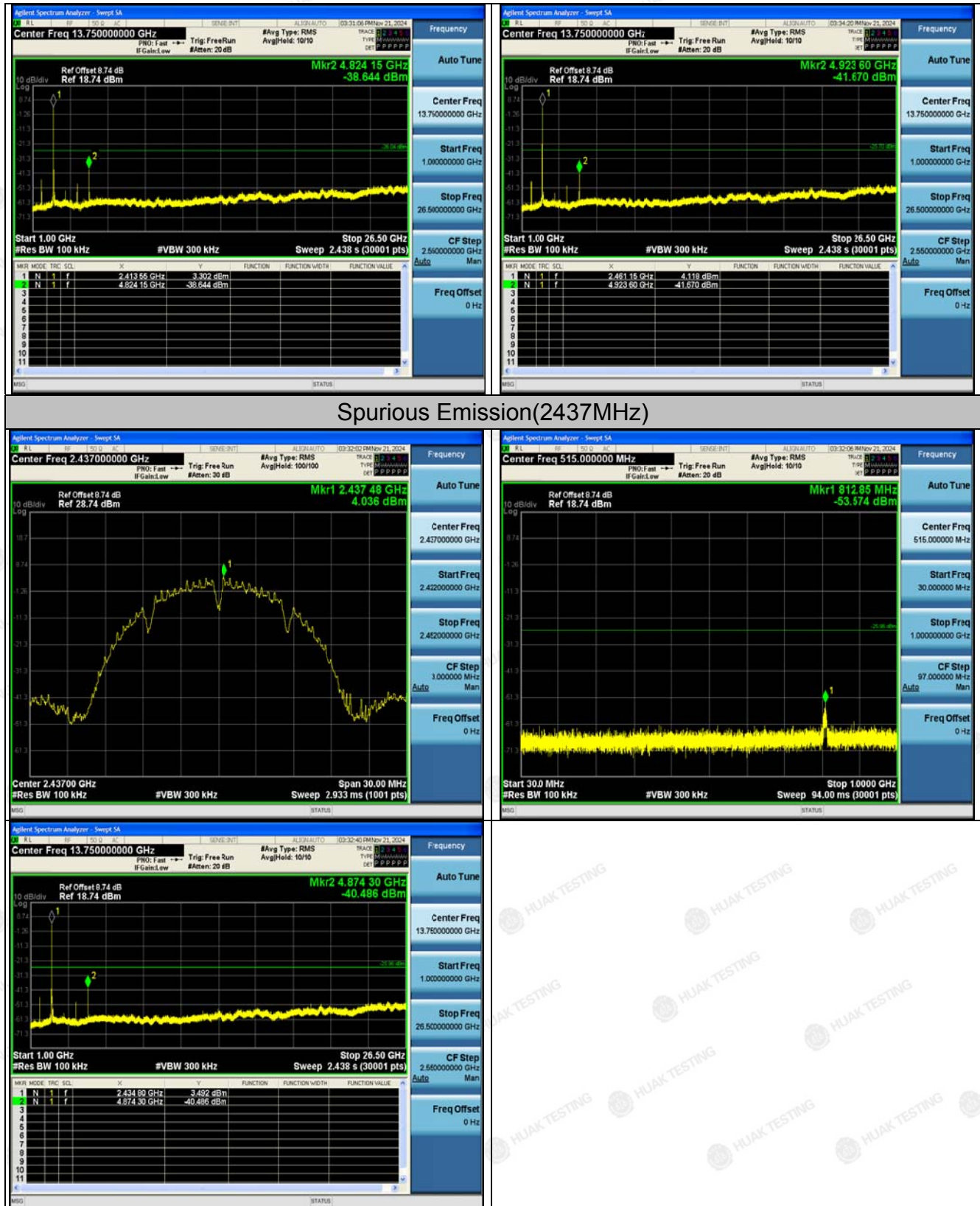
802.11b Modulation



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Add: 1-2F., Building B2, Junfeng Zhongcheng Zhizao Innovation Park, Heping Community, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China



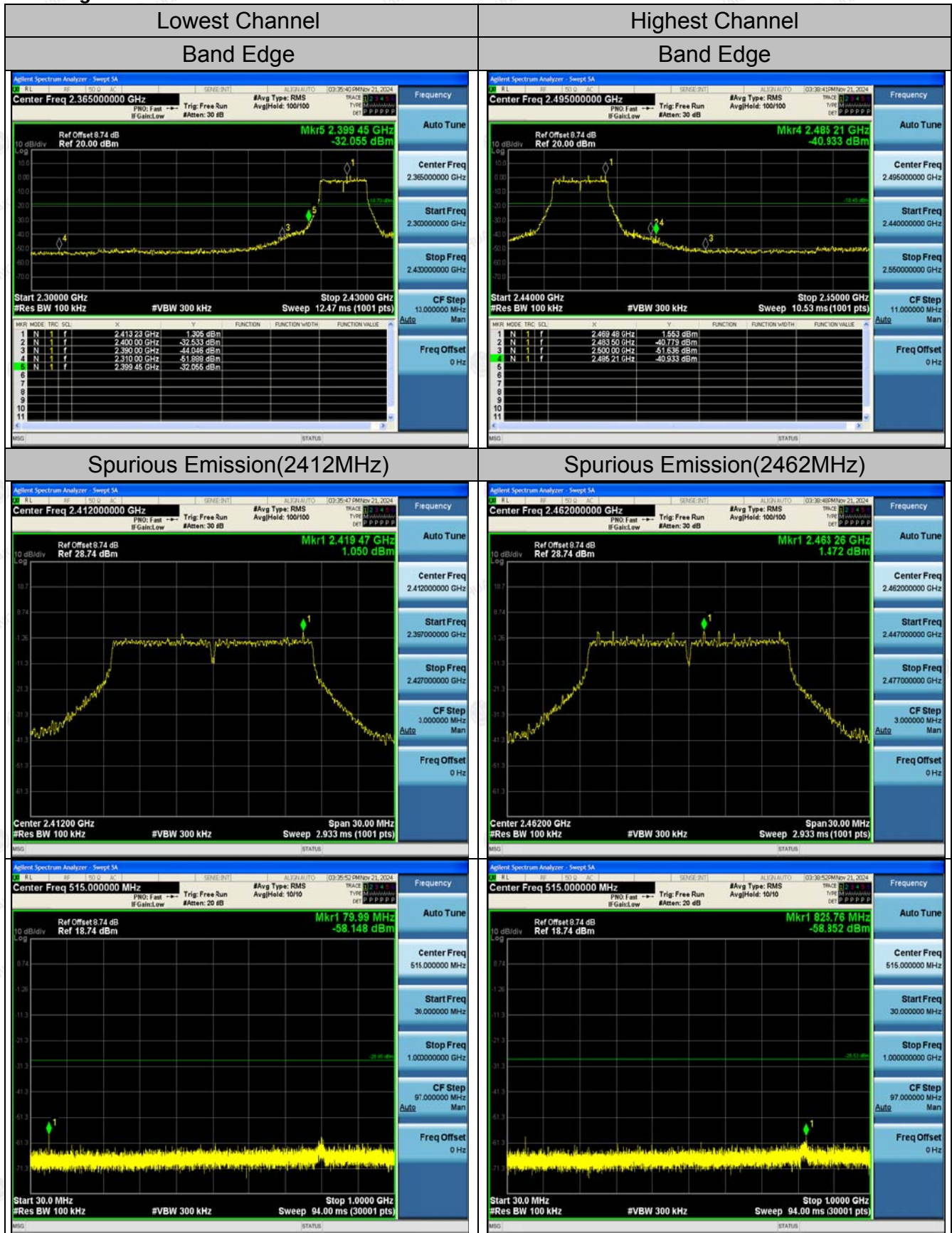
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802.11g Modulation



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